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ride Necessary for Maximum Effectiveness—Any reduction of the percentage of stannous fluoride in the paste below a concentration of a 5:3 ratio is followed by a decrease in the protective effect.

Additional Agent in Prophylactic Treatment—Future use of this paste should not obviate the requirement for a topical application of a 10 per cent solution of stannous fluoride. The paste is intended to be used in the cleaning and polishing phase of the prophylactic treatment as another method of decreasing the solubility of the tooth surface. Thus, with no additional time or manpower requirements, the benefits derived from the use of the stannous fluoride-silex-silicone dental prophylaxis paste can augment those of the subsequent stan-

nous fluoride application so that maximum protective effect is obtained.

Summary

1. A stannous fluoride-silex-silicone dental prophylaxis paste has been formulated that more effectively inhibits *in vitro* solubility of phosphorus of tooth structure than does a 10 per cent stannous fluoride topical application.

2. The contained silex, which acts as an abrasive, does not react with any of the other ingredients.

3. The silicone-petrolatum moistening agent increases the protective effect and adds stability to the mixture.

4. In a time-function study the effectiveness of the paste did not decrease over a five-week period.

5. Stannous fluoride is the salient constituent of the dental prophylaxis paste; the other components either add desirable properties or increase its effectiveness.

Adapted from Publication, *School of Aviation Medicine, United States Air Force, Brooks Air Force Base, Texas 60:11 (November) 1959.*

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